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October 31, 2000

10/31/00
JC920 U.S. PTO
09/699402
10/31/00



Box PATENT APPLICATION
Commissioner for Patents
Washington, D.C. 20231

Re: New U.S. Patent Appln.
Our Ref: 3064NG/49341

Sir:

Transmitted herewith for filing is the patent application of:

Masahiro MATSUO

entitled: NETWORK APPARATUS

Enclosed are:

1. Specification, including 7 claims (23 pages).
2. 7 Sheets of Informal drawings showing Figs. 1-6, 7A-7B, and 8.
3. X Declaration and Power of Attorney (**executed**).
4. Assignment of the invention to Funai Electric Co., Ltd.
5. X Preliminary Amendment.
6. Certified copy of Priority Document 11-311861 filed in Japan on November 2, 1999, the priority of which is being claimed under 35 U.S.C. §119 and 37 C.F.R. §1.55.
7. X Information Disclosure Statement w/2 references.
8. The filing fee has been calculated as shown below:

Basic Fee		\$355/710 =	\$710.00
Total Claims	<u>20</u> - 20 = <u>0</u>	x \$ 9/18 =	\$
Independent Claims	<u>1</u> - 3 = <u>0</u>	x \$40/80 =	\$
Multiple Dependent Claim Presented		\$135/270 =	\$
Total Filing Fee			<u>\$710.00</u>

Two checks in the amount of \$710.00 for the filing fee and \$40.00 for the assignment recording fee are enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 05-1323 (Docket #3064NG/49341). A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Jeffrey D. Sanok
Reg. No. 32,169

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MASAHIRO MATSUO

Serial No.: NOT YET ASSIGNED

Filed: OCTOBER 31, 2000

Title: NETWORK APPARATUS

PRELIMINARY AMENDMENT

Box PATENT APPLICATION
Commissioner for Patents
Washington, D.C. 20231

Sir:

Please enter the following amendments to the claims prior to the examination of the application.

IN THE CLAIMS:

Please amend claims 4, 6 and 7 as follows:

4. (Amended) The network apparatus according to [any preceding claims 1 to 3] claim 1, wherein

 said display means of said remote controller device includes:

 title displaying means for displaying a title of the information sent from said main device.

6. (Amended) The network apparatus according to [any preceding claims 1 to 5] claim 1, wherein:

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said information sending means of said main device sends the information to said remote controller device at an information sending destination after appending the identification code of said remote controller device to the information; and

 said remote controller device further includes display disabling means for, when the information sent from said main device to said display means is not appended with its own identification code, disabling display of the information.

7. (Amended) The network apparatus according to [any preceding claims 1 to 6] claim 1, wherein

 said main device and said remote controller device communicate with each other by means of infrared rays.

Please add new claims 8-20 as follows:

--8. The network apparatus according to claim 2, wherein
 said display means of said remote controller device includes:

 title displaying means for displaying a title of the information sent from said main device.

9. The network apparatus according to claim 3, wherein
said display means of said remote controller device
includes:

title displaying means for displaying a title of the
information sent from said main device.

10. The network apparatus according to claim 2, wherein
said display means of said remote controller device serves as
means for, when the title displayed on said title display means
is specified, displaying the information corresponding to the
title specified.

11. The network apparatus according to claim 3, wherein
said display means of said remote controller device serves as
means for, when the title displayed on said title display means
is specified, displaying the information corresponding to the
title specified.

12. The network apparatus according to claim 2, wherein:
said information sending means of said main device
sends the information to said remote controller device at an
information sending destination after appending the
identification code of said remote controller device to the
information; and

disabling means for, when the information sent from said main device to said display means is not appended with its own identification code, disabling display of the information.

13. The network apparatus according to claim 3, wherein:

said information sending means of said main device sends the information to said remote controller device at an information sending destination after appending the identification code of said remote controller device to the information; and

said remote controller device further includes display disabling means for, when the information sent from said main device to said display means is not appended with its own identification code, disabling display of the information.

14. The network apparatus according to claim 4, wherein:

said information sending means of said main device sends the information to said remote controller device at an information sending destination after appending the identification code of said remote controller device to the information; and

disabling means for, when the information sent from said main

device to said display means is not appended with its own identification code, disabling display of the information.

15. The network apparatus according to claim 5, wherein:
said information sending means of said main device
sends the information to said remote controller device at an
information sending destination after appending the
identification code of said remote controller device to the
information; and

said remote controller device further includes display disabling means for, when the information sent from said main device to said display means is not appended with its own identification code, disabling display of the information.

16. The network apparatus according to claim 2, wherein
said main device and said remote controller device
communicate with each other by means of infrared rays.

17. The network apparatus according to claim 3, wherein
said main device and said remote controller device
communicate with each other by means of infrared rays.

18. The network apparatus according to claim 4, wherein
said main device and said remote controller device
communicate with each other by means of infrared rays.

19. The network apparatus according to claim 5, wherein
said main device and said remote controller device
communicate with each other by means of infrared rays.

20. The network apparatus according to claim 6, wherein
said main device and said remote controller device
communicate with each other by means of infrared rays. --

REMARKS

Entry of the amendments to the claims before examination of the application is respectfully requested.

If there are any questions regarding this Preliminary
Amendment or this application in general, a telephone call to the
undersigned would be appreciated since this should expedite the
prosecution of the application for all concerned.

It is respectfully requested that, if necessary to effect a timely response, this paper be considered as a Petition for an Extension of Time sufficient to effect a timely response and shortages in other fees, be charged, or any overpayment in fees be credited, to the Account of Evenson, McKeown, Edwards &

Serial No.

Lenahan, P.L.L.C., Deposit Account No. 05-1323 (Docket #3064NG/49341).

Respectfully submitted,

October 31, 2000


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BACKGROUND OF THE INVENTION

The present invention relates to a network apparatus
5 capable of accessing services provided from a linked network,
such as the Internet.

Conventionally, an internet terminal linked to the Internet to access various kinds of services provided from a network has come into widespread use, and a great number of 10 users use an electronic mail service (hereinafter, referred to simply as mail service) known as one of the services available through the Internet. In order to receive an incoming electronic mail in the mail service, the user has to input his password or the like as a specific code, and for this 15 reason, a third party who does not know the password cannot receive the electronic mail without permission. This prevents an incoming electronic mail addressed to a particular user from being seen by the others.

However, the conventional internet terminal displays private information obtained from the network, such as the content of a received electronic mail, on a separate display device, such as a telereceiver. Therefore, when the user conducts a receiving manipulation and receives an electronic mail addressed to him, not only the user but also anyone around the display device can see the electronic mail. This poses

a problem that private information is leaked to the others, and there has been an increasing need for improved security on the private information.

Recently, there has been proposed a technique to display the private information obtained from a network, such as the Internet, on a display unit provided on a communication device, such as a portable phone (the Unexamined Japanese Patent Application Publication Nos. Hei 7-193866, Hei 8-125724, etc.). With this type of communication device, if the user moves away from the people around so that they cannot see the display on the display unit when receiving the private information from the network, no one but the user alone can see the content displayed on the display unit. In contrast, because the conventional internet terminal is arranged to display information obtained from the network on a separate display device, such as the telereceiver, it cannot handle the information in the same manner as the above portable phone.

SUMMARY OF THE INVENTION

20 It is therefore an object of the present invention to provide a network apparatus with improved security on private information in accessing services provided from a linked network.

In order to solve the above problems, a network apparatus 25 of the present invention has the following arrangements.

(1) The network apparatus comprises a main device linked to a network represented by the Internet and a portable remote controller device for remotely controlling the main device by means of communication, wherein

5 the remote controller device includes:
access destination specifying means for specifying an
access destination to the main device; and
display means for displaying information sent from the
main device, and wherein

10 the main device includes:
access means for accessing the access destination
specified by the remote controller device and obtaining
information therefrom; and
information sending means for sending the information
15 obtained by the access means to the remote controller device.

According to the above arrangement, when the remote controller device specifies the access destination to the main device, the main device accesses the specified access destination, obtains information therefrom, and sends the same to the remote controller device. The remote controller device displays the information sent from the main device on the display unit. Because the remote controller device is portable, the user can carry away the remote controller device to a place where the received information is not seen by anyone around, thereby making it possible to improve security on

private information.

(2) The remote controller device further includes identification code storage means for storing an identification code identifying itself;

5 the access destination specifying means serves as means for sending the identification code;

the main device further includes access destination storage means for storing the identification code of the remote controller device and the access destination in a one-to-one
10 correspondence; and

the access means serves as means for accessing the access destination corresponding to the identification code of the remote controller device received.

According to the above arrangement, the remote
15 controller device sends the identification code that identifies itself to the main device, and the main device accesses the access destination corresponding to this particular identification code. Thus, even when a plurality of remote controller devices share a single main device, by
20 assigning a different identification code to each remote controller device and storing the access destination of each remote controller device in the main device, the main device accesses the access destination corresponding to each remote controller device. Hence, when the remote controller device
25 corresponding to the access destination is not present, the

main device cannot access the access destination.

(3) The access destination storage means serves as means for storing a mail address as the access destination.

According to the above arrangement, because the mail address is stored as the access destination, the user can receive electronic mails easily.

(4) The display means of the remote controller device includes title displaying means for displaying a title of the information sent from the main device.

10 According to the above arrangement, the title of the information the main device has obtained from the specified access destination is displayed on the remote controller device. Thus, the user can easily judge the subject of the information obtained from the access destination.

15 (5) The display means of the remote controller device serves as means for, when the title displayed on the title display means is specified, displaying the information corresponding to the title specified.

According to the above arrangement, the user can readily 20 confirm the content of the information corresponding to the title being displayed.

(6) The information sending means of the main device sends the information to the remote controller device at an information sending destination after appending the 25 identification code of the remote controller device to the

information; and

the remote controller device further includes display disabling means for, when the information sent from the main device to the display means is not appended with its own identification code, disabling display of the information.

According to the above arrangement, the main device appends the identification code of the remote controller device at the information sending destination to the information and sends the same to the remote controller device, and the remote controller device disables the display of the information if it is not appended with its own identification code. Thus, it is ensured that the information is not displayed on the display unit of any remote controller device other than the one that has sent an access command to the main device.

(7) The main device and remote controller device communicate with each other by means of infrared rays.

The main device and remote controller device conduct an infrared communication.

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BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a view depicting an arrangement of a network apparatus in accordance with one embodiment of the present invention;

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Fig. 2 is a view depicting an arrangement of a main device in accordance with one embodiment of the present invention;

Fig. 3 is a view depicting an arrangement of a remote controller device in accordance with one embodiment of the present invention;

Fig. 4 is a flowchart detailing operations of the main device in accordance with one embodiment of the present invention;

Fig. 5 is a flowchart detailing operations of the remote controller device in accordance with one embodiment of the present invention;

Fig. 6 is another flowchart detailing operations of the remote controller device in accordance with one embodiment of the present invention;

Figs. 7A and 7B are views showing a display example on a display unit of the remote controller device in accordance with one embodiment of the present invention; and

Fig. 8 is a view showing another display example on the display unit of the remote controller device in accordance with one embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 is a view depicting an arrangement of a network apparatus in accordance with one embodiment of the present invention. The network apparatus of the present embodiment includes a main device 1 and a plurality of remote controller devices 2 (2a, 2b, ..., 2x). Numeral 5 denotes a telereceiver

connected to the main device 1, which displays information or the like on the screen based on an input signal from the main device 1. The main device 1 is linked to a network 7, such as the Internet, through a communication line 6, so that it
5 can access various kinds of services provided from the network 7. Each remote controller device 2 is assigned with a different ID (identification) code. For example, the remote controller devices 2a and 2b are assigned with their own ID codes, "aaa" and "bbb", respectively.

10 Fig. 2 is a block diagram depicting an arrangement of the main device 1, and Fig. 3 is a block diagram depicting an arrangement of each remote controller device 2. The main device 1 includes a control unit 11 for controlling operations of the main body, a storage unit 12 for storing access
15 destination information 12a that registers mail addresses of the remote controller devices 2 in a one-to-one correspondence, a first communication unit 13 for communicating with the remote controller devices 2 by means of infrared rays, a second communication unit 14 for communicating with the network 7 through the communication line 6, and an output unit 15 for outputting a signal to the telereceiver 5. The access destination information 12a is the information that registers the ID codes, mail addresses, and passwords and their respective remote controller devices 2 in a one-to-one
20 correspondence. The storage unit 12 is also provided with a
25

storage area where information obtained from the network 7, information sent from the remote controller devices 2, or the like is stored. In addition, the control unit 11 determines the setting of each remote controller device 2 as to whether 5 an output from the output unit 15 to the telereceiver 5 is disabled or enabled. When the output from the output unit 15 to the telereceiver 5 is disabled, none of the information the main device 1 has obtained from the network 7 is displayed on the telereceiver 5.

10 Each remote controller device 2 includes a control unit 21 for controlling operations of the main body, a manipulation unit 22 provided with keys used for input manipulations, a storage unit 23 for storing the ID code assigned to the self, a communication unit 24 for communicating with the main device 15 1 by means of infrared rays, and a display unit 25 for displaying information or the like received from the main device 1. As previously mentioned, each remote controller device 2 is assigned with a different ID code from those assigned to the others.

20 The following description will describe operations of the network apparatus of the present embodiment. Fig. 4 is a flowchart detailing the operations of the main device 1, and Figs. 5 and 6 are flowcharts detailing the operations of the remote controller device 2. The remote controller device 2 25 is provided with a mail confirmation key (not shown) in the

manipulation unit 22, and when the mail confirmation key is manipulated (n21), the remote controller device 2 sends a mail confirmation request appended with its own ID code stored in the storage unit 23 from the communication unit 24 to the main 5 device 1 (n24), and returns to n21. Here, n24 corresponds to access destination specifying means referred to in the present invention.

Upon receipt of the mail confirmation request sent from any remote controller device 2 at the first communication unit 10 13 (n1), the main device 1 retrieves the mail address corresponding to the remote controller device 2 that has sent the mail confirmation request (n4). More specifically, the main device 1 retrieves the access destination information 12a by using the ID code appended to the mail confirmation request 15 sent from the remote controller device 2 as a key, and reads out the mail address and password of the remote controller device 2 that has sent the mail confirmation request. Upon completion of the job in n4, the main device 1 accesses a corresponding mailbox (mail address read out in n4) over the 20 network 7 through the communication line 6, and obtains all the received mails (new mails) if any (n5). Here, n5 corresponds to access means referred to in the present invention. As is well known, the password is necessary to access the mailbox to obtain new mail(s), and it should be noted 25 that the main device 1 has already read out the password in

n4.

The main device 1 outputs the new mail(s) obtained from the network 7 from the first communication unit 13 to the remote controller device 2 (n6). Here, n6 corresponds to information 5 sending means referred to in the present invention. More specifically, the main device 1 appends the ID code of the remote controller device 2 that has sent the mail confirmation request received in n1 to the new mail(s) to be outputted. When there is no new mail in the mailbox, the main device 1 outputs 10 a message indicating so after appending the ID code of the request sender remote controller device 2 to the message. Further, the main device 1 judges whether an output from the output unit 15 to the telereceiver 5 is disabled or not (n7). If so, the main device 1 returns to n1; otherwise, the main 15 device 1 outputs the new mail(s) obtained in n5 from the output unit 15 to the telereceiver 5 (n8), and returns to n1. Accordingly, the information the main device 1 has obtained from the network 7 is not displayed on the telereceiver 5 when the output from the output unit 15 to the telereceiver 5 is 20 disabled, and conversely, the information the main device 1 has obtained from the network 7 is displayed on the telereceiver 5 when the output from the output unit 15 to the telereceiver 5 is enabled. Thus, if the information is of the kind that the user does not wish to be seen by the others around the 25 telereceiver 5, the information will not be displayed on the

telereceiver 5 by disabling the output from the output unit 15 to the telereceiver 5, and instead, as will be discussed below, the information will be displayed on the display unit 25 of the remote controller device 2 alone, thereby preventing 5 the information from being seen by the others. The switching between disabling and enabling of the output from the output unit 15 to the telereceiver 5 will be described below.

Upon receipt of the information outputted from the main device 1 at the communication unit 24 (n21→n22→n23→n30), the 10 remote controller device 2 judges whether the information is outputted to the self or not (n31). More specifically, the remote controller device 2 judges whether the information is addressed to the self or not by checking whether the ID code appended to the received information coincides with its own 15 ID code. When the remote controller device 2 judges that the information outputted from the main device 1 is not addressed to the self, it neglects the information and returns to n21. When the remote controller device 2 judges otherwise, it executes a receiving job at the communication unit 24 (n32). 20 Upon completion of the receiving job, the remote controller device 2 checks whether the information sent from the main device 1 is one or more new mails (n33), and if so, the remote controller device 2 displays the title of each received new mail (n34). For example, Fig. 7(A) shows a display on the 25 display unit 25 of the remote controller device 2 when three

new mails are received from the main device 1, and Fig. 7(B) shows a display on the display unit 25 of the remote controller device 2 when no new mail is received. The remote controller device 2 stores the contents (texts) of the new mail(s) sent 5 from the main device 1 in the storage unit 23.

When the user manipulates the manipulation unit 22 to specify a title he would like to see out of the titles displayed on the display unit 25 (n35), the remote controller device 2 reads out the text of the new mail corresponding to the title 10 specified in n35 from the storage unit 23 and displays the same on the display unit 25 (n36) (see Fig. 8). Subsequently, when the user manipulates the manipulation unit 22 to display the titles (n37), the remote controller device 2 returns to n34, and repeats the foregoing jobs. Thus, by repeating the 15 foregoing procedure, the user can confirm the content of each of the new mails sent from the main device 1 on the display unit 25 of the remote controller device 2. When the user manipulates the manipulation unit 22 to complete the job (n38, n40), the remote controller device 2 executes a completing job 20 in n39 or n41, and returns to n21.

As has been discussed, with the network apparatus of the present embodiment, the user can confirm mails on the display unit 25 of the remote controller device 2. Also, by disabling the output from the output unit 15 to the telereceiver 5, no 25 information will be displayed on the telereceiver 5.

Alternatively, the main device 1 may store the content of each new mail in the storage unit 12, so that, when the title is specified on the remote controller device 2, the text corresponding to the specified title will be displayed on the 5 display unit 25 of the remote controller device 2 by means of infrared communication between the main device 1 and remote controller device 2. In addition, because the title of each received new mail is displayed, the user can readily judge the subjects of the received new mails. Moreover, the user can 10 confirm the contents thereof by an easy manipulation of specifying the title.

Also, instead of the mail address, the remote controller device 2 can specify any address over the network 7, such as a home page, as the access destination to the main device 1. 15 In this case, the user manipulates not the mail confirmation key but an address specifying key (not shown) in the manipulation unit 22, and then inputs the address of the access destination. Once the address specifying key is manipulated (n21→n22), the remote controller device 2 accepts the address 20 inputted by the user (n25). When a sending key (not shown) provided in the manipulation unit 22 is manipulated (n26), the remote controller device 2 sends an access request to the main device 1 after appending its own ID code to the address accepted in n25 (n27), and returns to n21. Here, n27 also corresponds 25 to access destination specifying means referred to in the

present invention.

Upon receipt of the access request from any remote controller device 2 (n1→n2), the main device 1 detects the address (address inputted by the user) over the network 7 specified by the access request as the access destination (n9). Subsequently, the main device 1 proceeds to n5 where it executes an access job to obtain information from the access destination. Then, the main device 1 appends the ID code of the remote controller device 2 that has sent an access request signal to 10 the information obtained in n5 and outputs the same from the first communication unit 13(n6), after which the main device 1 executes the jobs in n7 and n8 and returns to n1.

Upon receipt of the output from the main device 1, the remote controller device 2 executes jobs in n30 and onward. 15 In this case, because the information sent from the main device 1 is not a new mail, the remote controller device 2 proceeds to n42 from n33, and returns to n21 after it has displayed the information received from the main device 1 on the display unit 25.

20 Consequently, the user can specify any desired access destination over the network 7 to the main device 1 by manipulating the remote controller device 2. The user can also confirm the information the main device 1 has obtained from the network 7 either on the display unit 25 of the remote 25 controller device 2 or telereceiver 5.

Next, the following description will describe a switching manipulation between disabling and enabling of the output from the output unit 15 to the telereceiver 5. When the user manipulates a display switching key (not shown) 5 provided in the manipulation unit 22, the remote controller device 2 outputs a display switching signal to the main device 1 ($n21 \rightarrow n22 \rightarrow n23 \rightarrow n28$). The remote controller device 2 also appends its own ID code to the display switching signal, and sends the same to the main device 1.

10 Upon receipt of the display switching signal from the remote controller device 2 ($n1 \rightarrow n2 \rightarrow n3$), the main device 1 switches the output from the output unit 15 to the telereceiver 5 from "disable" to "enable" and vice versa ($n10$). Thus, with the network apparatus of the present embodiment, the 15 information obtained from the network 7 can be displayed on the telereceiver 5 as well, and therefore, if the information is open to public (for example, a home page), the user can confirm the content of the information on the larger screen of the telereceiver 5.

20 As has been explained, the main device 1 stores the setting of the remote controller devices 2 as to whether the output from the output unit 15 to the telereceiver 5 is disabled or enabled in the storage device 12 in a one-to-one correspondence. For this reason, even when the output from 25 the output unit 15 to the telereceiver 5 is enabled for some

of the remote controller devices 2, it is ensured that no information is outputted from the output unit 15 to the telereceiver 5 for the remote controller devices 2 to which the output is disabled.

5 As has been explained, the network apparatus of the present embodiment is arranged such that the information obtained from the network 7, such as new mails, is displayed on the display unit 25 of the remote controller device 2 that remotely controls the main device 1, and that the setting as
10 to whether the display on the telereceiver 5 is disabled or enabled can be switched. Consequently, the security on the private information can be improved. The network apparatus is also arranged such that a different ID code is assigned to each remote controller device 2, and the main device 1
15 determines the mail address to be accessed based on the ID code sent from the remote controller device 2. Hence, any other remote controller device 2 cannot access the mail address thus determined. Accordingly, even when the remote controller devices 2 are distributed to the users at random, this
20 arrangement can eliminate a problem that anyone having the remote controller device 2 receives an electronic mail addressed to a particular user without permission. Also, the network apparatus is arranged such that the main device 1 appends the ID code of the remote controller device 2 at the
25 information sending destination to the information obtained

from the network 7 and sends the same to that particular remote controller device 2, and the remote controller device 2 neglects information if the information is not appended with its own ID code. This arrangement can eliminate a problem that 5 the information outputted from the main device 1 is displayed on the display unit 25 of the remote controller device 2 that has not sent the request to the main device 1 to access the network 7.

As has been discussed, according to the present invention, 10 the information the main device has obtained from the specified access destination is displayed on the display unit of the remote controller device that remotely controls the main device. Hence, the user can move to a place where the information obtained from the network is not seen by anyone around, thereby 15 making it possible to improve the security on the private information.

In addition, a different ID code is assigned to each remote controller device and the main device stores the access destination of each remote controller device in a one-to-one 20 correspondence. Therefore, even when a plurality of remote controller devices share a single main device, the main device accesses the access destination corresponding to each remote controller device. Hence, if the remote controller device corresponding to the access destination is not present, the 25 main device cannot access the access destination. This

arrangement prevents the privation information from being seen by the others without permission.

In addition, because the main device stores the mail address of each remote controller device as the access 5 destination, the user can receive an electronic mail without inputting the mail address.

Also, because the title of the information the main device has obtained from the access destination is displayed, the user can readily judge the subject of the information 10 obtained from the access destination.

Further, the main device appends the ID code of the remote controller device at the information sending destination to the information and sends the same to the remote controller device, and the remote controller device disables the display 15 of the information if it is not appended with its own ID code. Consequently, the information is not displayed on the display unit of any remote controller device other than the one that has issued an access command to the main device.

WHAT IS CLAIMED IS:

1. A network apparatus comprising:
 - a main device linked to a network represented by the Internet, and
 - a portable remote controller device for remotely controlling said main device by means of communication, wherein said remote controller device includes:
 - access destination specifying means for specifying an access destination to said main device; and
 - display means for displaying information sent from said main device, and wherein said main device includes:
 - access means for accessing the access destination specified by said remote controller device and obtaining information therefrom; and
 - information sending means for sending the information obtained by said access means to said remote controller device.
 2. The network apparatus according to Claim 1, wherein:
 - said remote controller device further includes:
 - identification code storage means for storing an identification code identifying itself;
 - said access destination specifying means serving as means for sending said identification code; and
 - said main device further includes:

access destination storage means for storing the identification code of said remote controller device and the access destination in a one-to-one correspondence; said access means serving as means for accessing the access destination corresponding to the identification code of said remote controller device received.

3. The network apparatus according to Claim 2, wherein said access destination storage means serves as means for storing a mail address as the access destination.

4. The network apparatus according to any preceding claims 1 to 3, wherein
said display means of said remote controller device includes:

title displaying means for displaying a title of the information sent from said main device.

5. The network apparatus according to Claim 4, wherein
said display means of said remote controller device serves as means for, when the title displayed on said title display means is specified, displaying the information corresponding to the title specified.

6. The network apparatus according to any preceding claims 1 to 5, wherein:

 said information sending means of said main device sends the information to said remote controller device at an information sending destination after appending the identification code of said remote controller device to the information; and

 said remote controller device further includes display disabling means for, when the information sent from said main device to said display means is not appended with its own identification code, disabling display of the information.

7. The network apparatus according to any preceding claims 1 to 6, wherein

 said main device and said remote controller device communicate with each other by means of infrared rays.

ABSTRACT OF THE DISCLOSURE

A remote controller device 2 sends its own ID code when specifying an access destination to a main device 1. Upon receipt of an access command from the remote controller device 5 2, the main device 1 appends the ID code of the remote controller device 2 to information obtained by accessing the access destination and outputs the same. The remote controller device 2 takes in the output only when it is appended with its own ID code and displays the same on a display unit 25. Thus, 10 the user can confirm the information the main device 1 has obtained from the network 7 on the display unit 25 of the remote controller device 2. Consequently, the risk that the information is seen by anyone around can be reduced, thereby 15 making it possible to improve the security on the private information.

Fig. 1

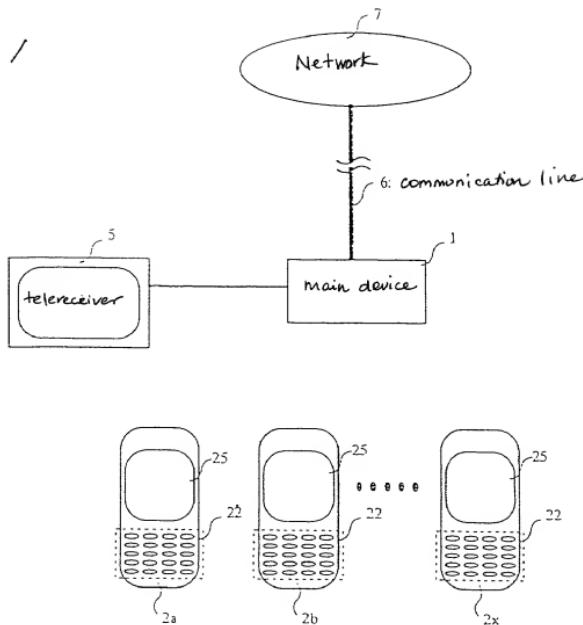


Fig. 2

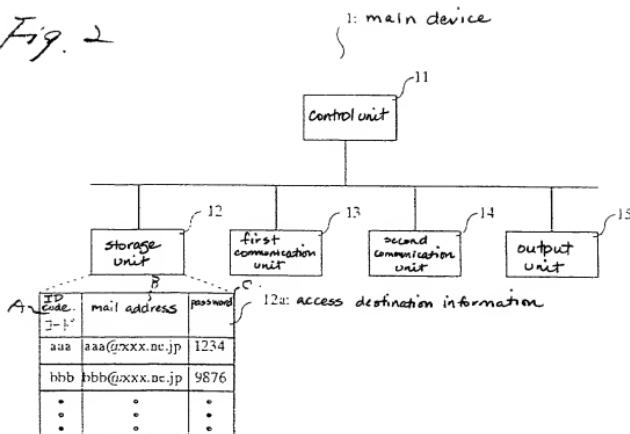


Fig. 3

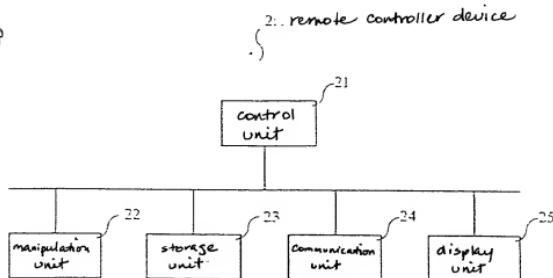
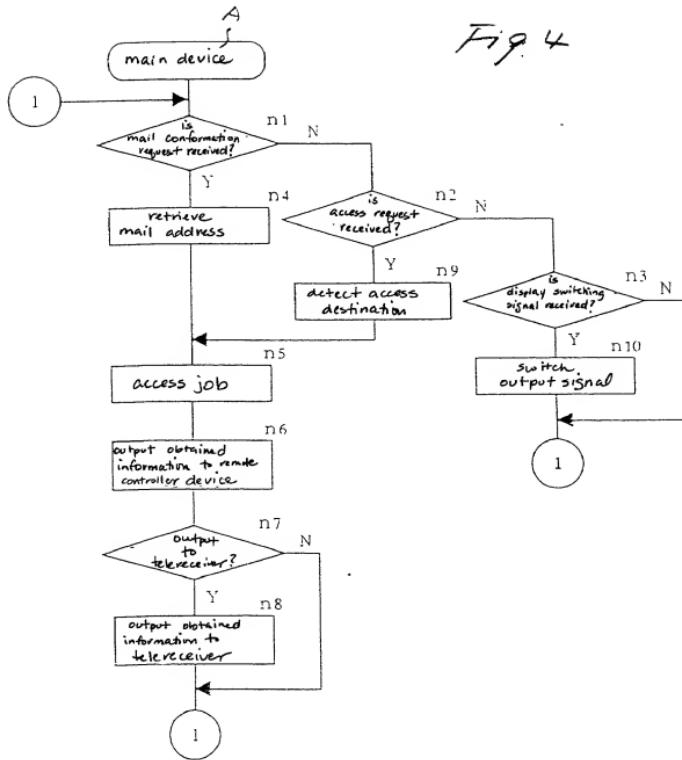


Fig. 4



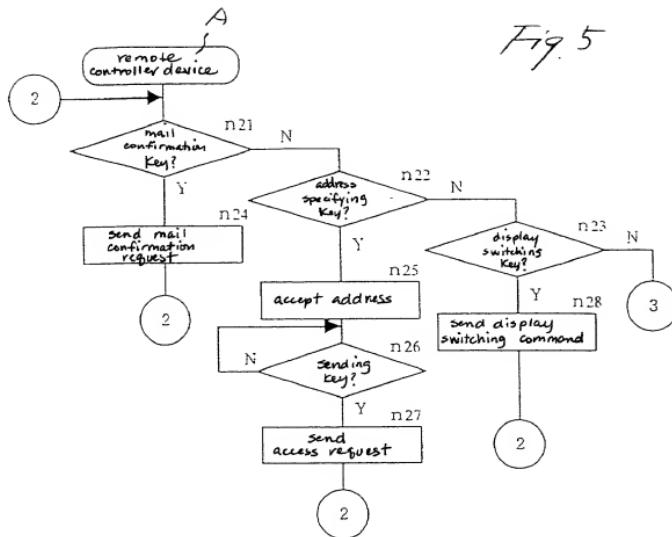


Fig 5

Fig. 6

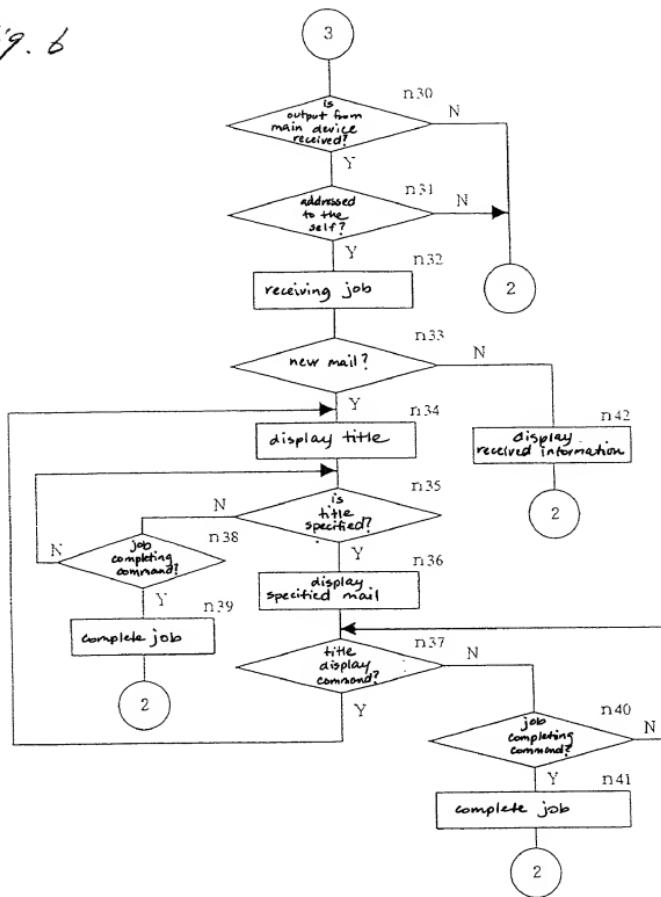


Fig. 7A

25

- ①10:35 Thank you for your good job
yesterday From yamada
- ②11:24 Tomorrowis meeting
- ③15:28 Waiting for your reply from Tanaka

A: 3 New Mails

Fig. 7B

25

A: No New Mail

Fig 8

25

②11:24 Tomorrow's meeting

A: Start time of tomorrow's meeting is changed from 9:00 to 10:00.

Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

NETWORK APPARATUS

上記発明の明細書（下記の欄でx印がついていない場合は、本件に添付）は、

the specification of which is attached hereto unless the following box is checked:

____月____日に提出され、米国出願番号または特許協定条約国際出願番号を_____とし、
(該当する場合) _____に訂正されました。

was filed on _____
as United States Application Number or
PCT International Application Number
_____ and was amended on _____
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Prior Foreign Application(s)

外国での先行出願

P.Hi 11-311861

Japan

(Number)
(番号)(Country)
(国名)(Number)
(番号)(Country)
(国名)

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

優先権主張なし

2/November/1999

(Day/Month/Year Filed)
(出願年月日)(Day/Month/Year Filed)
(出願年月日)

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(出願番号)(Filing Date)
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(Application No.)
(出願番号)(Filing Date)
(出願日)(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)(Application No.)
(出願番号)(Filing Date)
(出願日)(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

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Japanese Language Declaration
(日本語宣言書)

委任状： 私は下記の発明者として、不出願に関する一切の手続を米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。（弁護士、または代理人の氏名及び登録番号を明記のこと）

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